



SAGE SCIENCE INC

Pippin Prep Installation Guidelines

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SUMMARY

This guideline documents requirements and procedures for users or Sage Science Staff for installing the Pippin Prep instrument.

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1.0 INTRODUCTION

1.1 Purpose

This guideline documents requirements and procedures for users or Sage Science Staff for installing the Pippin Prep system.

1.2 Scope

This document encompasses the requirements, conditions, and steps for the installation of the Pippin Prep instrument. This document will be used by Sage Science personnel and Sage Science customers or collaborators.

1.3 Reference Documents

460010, Pippin Prep Operations Manual

All at the latest revision.

1.4 Responsibilities

The Sage Science Applications Lab Director or designee will be responsible to ensure that this procedure is implemented.

2.0 PIPPIN PREP INSTALLATION REQUIREMENTS

2.1 Operating Conditions

The Pippin Prep system is designed to operate under the following environmental conditions:

- Pollution Degree 2
- Installation category 2
- Max. Altitude 2000m
- Indoor use
- Ambient temperature 17-25°C
- Humidity 10-80%, non-condensing

2.2 Safety

Standard laboratory precautions should be taken when handling Pippin Prep Gel cassettes and operating the Pippin Prep:

- Wear a lab coat, safety glasses, and gloves.
- Use in proximity of an eye wash station and/or running water

2.3 Power Consumption and Heat

At maximum power consumption, the Pippin Prep generates approximately 100Watts (340 BTU/hr)

2.4 Operating Power and Outlet Requirement

Two **110V (or 220V) outlets** are required:

- Pippin Prep instrument
- LCD monitor

2.5 Bench Space

A **30" X 30"** area is recommended for operation of the Pippin Prep and preparation of Gel cassettes, based on a 30" deep bench. Minimally, a depth of 18" will suffice.

Pippin Prep instrument dimensions:

- 11"W x 7"H x 21"D (28 x 18 x 53 cm)

2.5 Bench Space (cont'd)

LCD monitor dimensions (including stand):

- 17.5"W x 13"H x 7" D (44 x 33 x 18 cm)

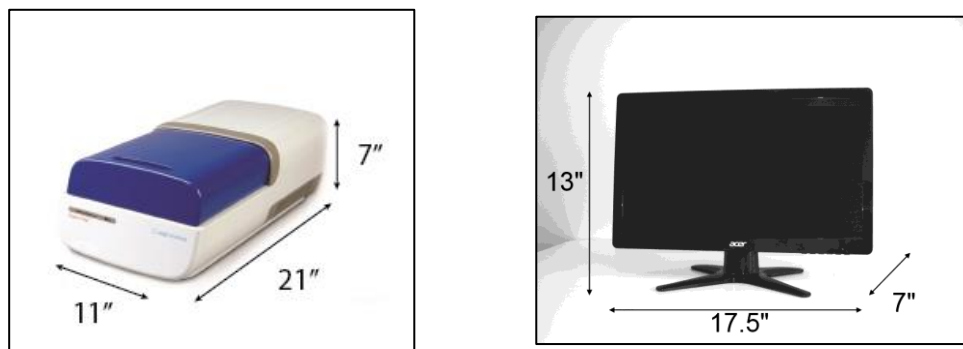


Figure 2.1. Instrument and Monitor Dimensions

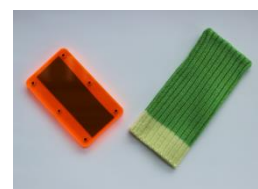
3.0 PIPPIN PREP INSTALLATION PROCEDURE

3.1 Packaging and Components

The Pippin Prep system is shipped in two boxes: one will contain the Pippin Prep instrument and accessories, and the second box will contain the computer monitor in the manufacturer's original packaging. With the boxes in the upright position, open and confirm that the following items are enclosed:

Monitor

- LCD computer monitor
- VGA video cable
- Power supply
- Power cord



Optical calibration fixture with protective cover

Pippin Prep

- Pippin Prep Instrument
- Accessory box
 - Computer keyboard, USB
 - Computer mouse, USB
 - Power supply
 - Power cord
 - Rinse Cassette
 - Optical Calibration fixture
 - Operation Manual



Rinse cassette

3.2 Installation

1. Open the LCD monitor box, and assemble it according to the manufacturer instructions
2. Cut the top seal on the Pippin Prep box, and open. Remove the upper foam rubber insert.
3. Remove the accessory box and place it on a benchtop. It is a white box on its side in front of the lower foam rubber insert. Remove the keyboard, mouse, and instrument power supply and cords from their packaging.
4. Grip the front bottom and back top of the Pippin Prep instrument and lift it from the box. The Pippin Prep weighs approximately **15 lbs**. Place the unit onto the bench top.
5. Connect the LCD monitor (VGA port, under the screen) to the Pippin Prep (VGA port, back panel, see Figure 3.1) using supplied video cable.
6. Using the power cord and power supply provided by the manufacturer, plug the monitor into an electrical outlet.
7. Turn on the monitor.
8. Insert the USB connector from the computer **keyboard** into any USB port located on the back panel of the Pippin Prep (Figure 3.1).
9. Insert the USB connector from the computer **mouse** into any USB port located on the back panel of the Pippin Prep (Figure 3.1).
10. Connect Pippin Prep instrument to the power outlet using the Pippin Prep power supply and power cable. The power input connector is in the lower right hand corner on the back panel of the Pippin Prep (Figure 3.1).
11. When connected to power, the blue leds on the instrument nest will be lit at all times.
12. Press the power button. It is located on the left side of the back panel (Figure 3.1).
13. When powered on, the blue light on the front panel of the Instrument will turn on (Figure 3.2).
14. When powered on, the software will launch (this will take approximately 30 – 60 seconds).

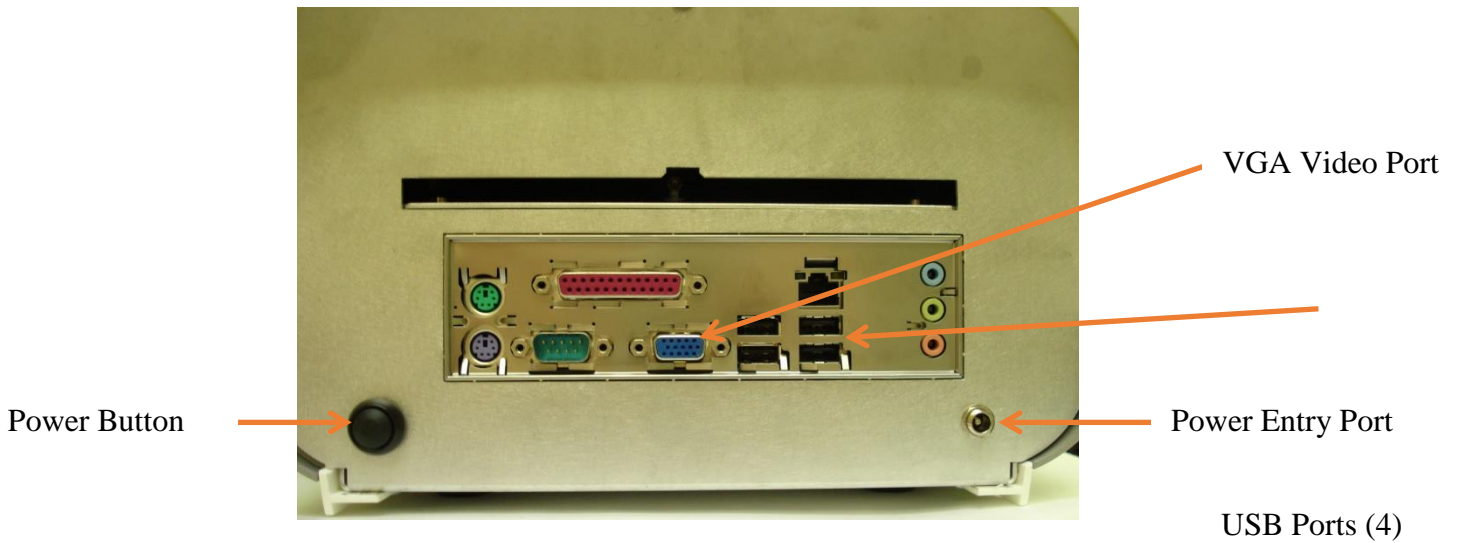


Figure 3.1 Rear Panel of the Pippin Prep



When running a protocol, a green light is also indicated on

After the power button is pressed, the front panel Blue LED will light, and the software will launch.



Nest LED lights are on at all times when connected to power.

Figure 3.2 Front Panel of the Pippin Prep and cassette nest